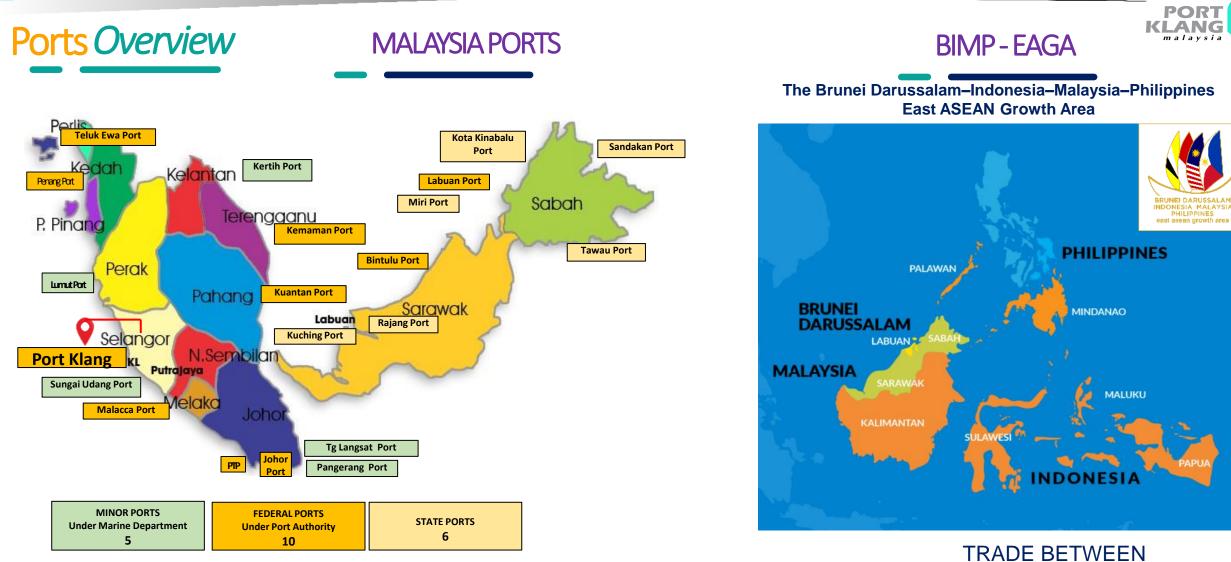


FUTURE DIRECTION & INITIATIVE APPROACHES FOR PORTS, SHIPPING & LOGISTICS IN MALAYSIA

CULTIVATING ADAPTABILITY & RESILIENCE IN THE MARITIME INDUSTRY

PORT KLANG'S PERSPECTIVE

Presented by Capt. K. Subramaniam General Manager

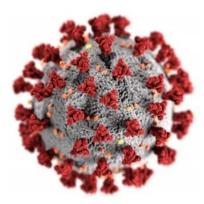


MALAYSIA THROUGHPUT 2021 **28 MILLION TEUS**

PORT KLANG THROUGHPUT 2021 13.7 MILLION TEUS

TRADE BETWEEN PORT KLANG – BIMP EAGA 2021 **2,020,971 TEUS** BRUNEI : 30,359 INDONESIA: 728,537 MALAYSIA: 1,203,571 PHILIPPINES: 58,504

Recent Challenges in Shipping, Ports & Logistics



COVID-19 Pandemic



Russia – Ukraine War



Disruptions In Supply Chain



Fuel Price Increase



Shortage of Capacity – Long Staying Containers - Congestion at Port Terminals

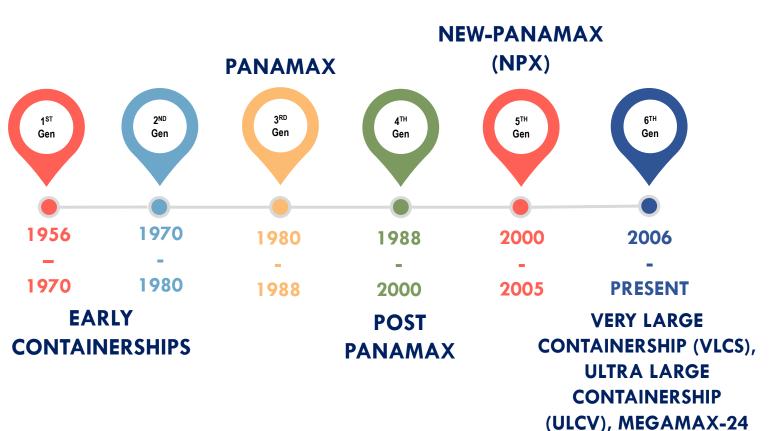
IMPACT

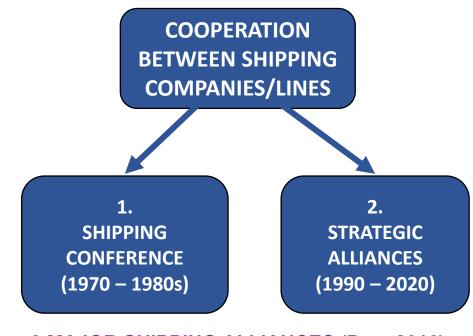
- Freight Rate Increase
- Congestion at Port
- Shortage of Containers
- Freight Rate Increase



CHANGES AND EVOLUTION OF THE GLOBAL MARITIME AND SHIPPING INDUSTRY

EVOLUTION OF CONTAINER VESSELS (SIZE)





MERGER & ALLIANCES

POR

KLANG *m a l a y s i a*

3 MAJOR SHIPPING ALLIANCES (Post 2016)

- THE Alliance (Hapag-Lloyd, ONE, and Yang Ming)
- Ocean Alliance (COSCO, OOCL, CMA CGM, and Evergreen)
- **2M Alliance** (Maersk, Hamburg Sud and MSC)





IMPACT OF ALLIANCES (Before COVID-19)

RATIONALIZATION OF SHIPPING SERVICES

Strategic alliances will increase service frequencies and carriage capacities between hub ports on the long hauls.

HUB AND FEEDER PORTS

Feeder networks and feeder vessel sizes have also grown as shipping alliances most often choose 1 or 2 major hub ports in the region.

PRIMARY / SECONDARY HUBS

Port Klang has been chosen secondary hub by many lines as they experienced delay due to congestion in Singapore.

IN REALITY - EXCESS OF SHIPPING CAPACITY

LOW FREIGHT RATES

IMPACT OF ALLIANCES (During & Post COVID-19)

POR

SUDDEN DEMAND FOR SHIPPING SERVICES

TRADE IMBALANCE AND SUPPLYCHAIN DISRUPTION

SHARP INCREASE IN FREIGHT RATE

FINANCIAL WINDFALL FOR SHIPPING LINES

- Diversification into logistics business: Air Freight, Total Logistics (LF Logistics – Maersk, CEVA Logistics - CMA CGM, Bolloré Logistics – MSC)
- Investment into new buildings (1,311 Ship Orders from 2020 to 2023)



ISSUES DURING COVID-19





Health Risk & Restrictions

• Port workers face risk of infection

2

- SOPs imposed reduced workforce productivity
- Risk of infection of new variants from ship crew



3

Congestion at Port

- Stringent quarantine and health controls
- Congestion/closure of destination ports
- Increase in cargo dwell time
- Port efficiency & productivity affected
- Inland Cargo distribution disrupted



Shipping Demand Increased

- 90% of the world goods are carried by sea
- Increase in consumer consumption
- Alternate spending in lieu of lifestyle and travel
- Increase in demand for port & logistics services
- Increase in demand for digital services



Crew Change & Medical Evacuation

- Normal crew change affected
- Limited resources on board



Shortage of Containers

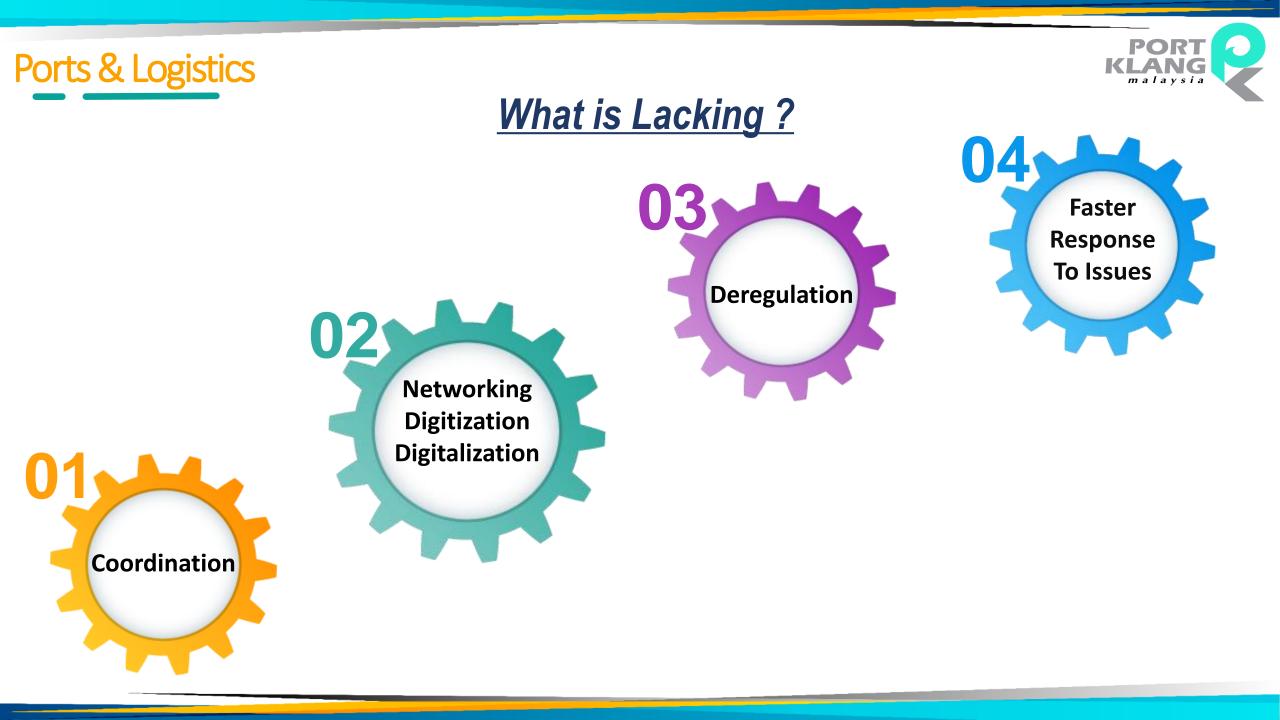
- Disruption in logistics services in Europe & US
- Backlog of undelivered containers in ports
- Detained containers at customer's premise
- High demand from exporters in China



6

Freight Rate Increase

- Freight at all time high
- China exporters willing to pay premium
- Shortage of vessel slots at other ports
- Fluctuating & Mismatch in supply & demand especially between Asia/ Europe/ North America









CONTINUOUS CAPACITY BUILDING PORT KLANG



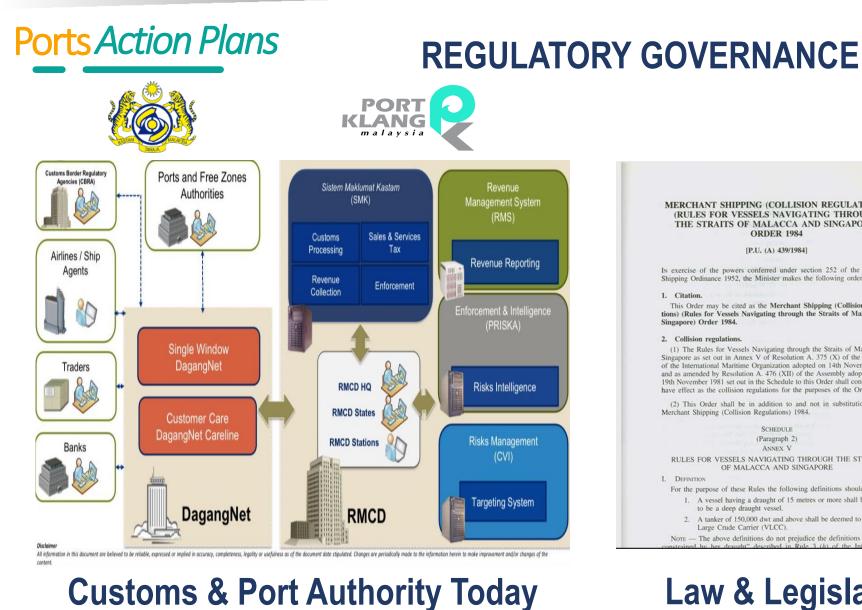
- NORTHPORT RE-ENGINEERING PLAN
 - ✓ NDSB2 Integrated Logistics Hub
 - ✓ Regional Distribution Centre
 - ✓ Total net-lettable area: 350k sqft
 - ✓ Development of new container yard to increase capacity by 560,000 TEUs

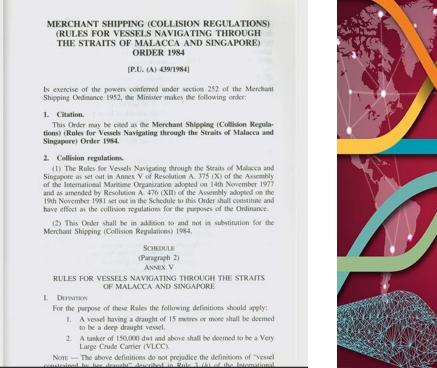


- LPG STORAGE & DISTRIBUTION HUB
 - ✓ Dedicated berth at LBTS to cater both LPG & LNG ships
- WESTPORTS EXPANSION
 - ✓ To add 4.8km berth
 - ✓ Additional handling capacity 13 million TEUs
 - ✓ Dedicated green area
 - Garden port & Green construction operations



- 3RD TERMINAL (CAREY ISLAND)
 - ✓ Natural deep water of 20-metre
 - ✓ Basin design for land optimization
 - ✓ Integrated Port City Development
 - ✓ Manufacturing Hub & Logistics Distribution Centre





Law & Legislation / Policies / Strategy

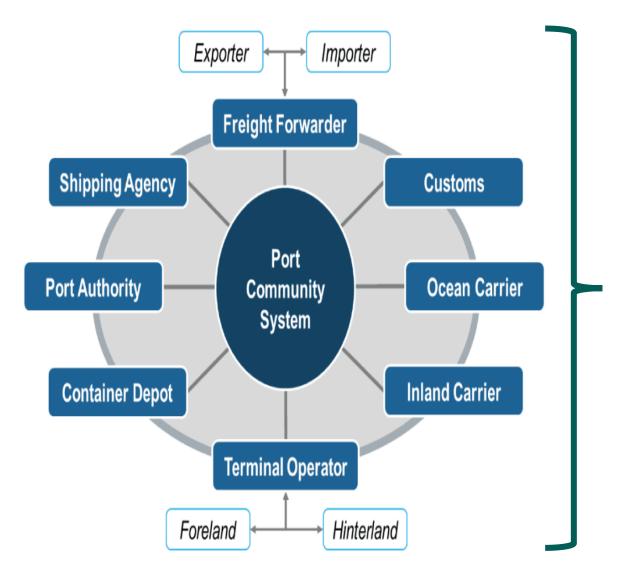
- Harmonization of Policy & Law which is not inline with current trend practices.

- Simplified regulations for more business friendly environment.



DIGITALIZATION





SINGLE MARITIME WINDOW

Deliverable 1 Vessel Clearance System

Deliverable 2 Cargo Tracking & Tracing System

Deliverable 3 Trade Exchange Portal to be Incorporated with Custom Clearance System

Ports Action Plans **DIGITIZATION & DIGITALIZATION Example of Digitization & Digitalization Activities at Terminals Before 2014**



Queueing for submission



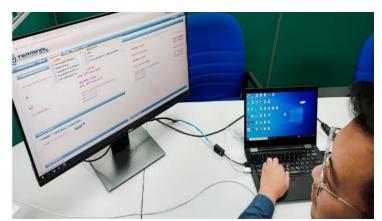
Hardcopy submission

Other Activities:

- Smart Card Security System (SCSS)
- **Centralised Berth Allocation System (CBAS)** _
- Document Management System (DMS) _
- Internal Trucking System (WIT) _
- Conventional Gate System (iTap)
- Remote Gate System (RGS)
- Remote Reefer Monitoring System (RMS)
- CargoMove & Haulier Booking System

AND MANY MORE.....





Online Application

E-gate

NOW



Ports Action Plans

TRANSFORMATION OF WORKFORCE







NICE is a unit under Northport's Human Capital Division, providing training and development programs that are aligned to the needs of the business, especially the ports and logistics related programs which are anchored to the key corporate strategies and organization values.



Westports have onsite facilities with computers to conduct various workshops and trainings to allow our employees to learn conveniently new technologies and surrounding transformations as they work. All employees will be required to attend 2 trainings in a year.





Port Klang Authority (PKA) has been actively involved in staff training and exchange program (physically & virtually) between sisterports to upskill staff's knowledge on new technologies and best practices. PKA also have in-house training. All staffs required to attend at least 3 training / courses / workshops.

TO UPSKILL KNOWLEDGE & ABLE TO PERFORM BEYOND SCOPE OF WORK





SUSTAINABILITY & RESILIENCE



FUTURE OF PORTS / SHIPPING / LOGISTICS WILL BE BASED ON

DIGITALIZATION Use of digitalization to expedite transactions & improve business flow.

2

RESILIENCE Industries being more resilient to withstand disruptions & Incorporate technology to build the resilient.



1









THANK YOU